



Triax Compact Headend

Compact Headend DVB-T-PAL

CSE 0601: 6 channel single mono DSB

CSE 0801: 8 channel single mono DSB

CSE 1201: 12 channel single mono DSB

Compact Headend DVB-S-PAL

CSE 0611: 6 channel single mono DSB

CSE 0811: 8 channel single mono DSB

CSE 1211: 12 channel single mono DSB



User guide

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Characteristics

Modular Headend system for up to 6, 8 or 12 channels
DVB-T-PAL and DVB-S -PAL
Simple installation and operation by remote control
High Output Level
Multi-lingual OSD
Accessories for wall mounting included
Easy maintenance

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Date 04/09-V01

Safety Instructions

Before mounting the Headend please read the instruction manual carefully.



The permissible operating temperature is $-10\text{--}+50$ deg.

Excessive heat, heat accumulation or operating outside the permissible temperature range may affect the durability and are a source of danger (risk of fire)!
Keep ventilation slots free and maintain significant ventilation around the unit.

When using fans with the installation of the Headend in electrical cabinets in order to ensure the permissible ambient temperature you have to take appropriate measures to guarantee a shut-down of the unit (power-off) in the case of a failure of the fan.

The mounting ground should be:

- - even and flame-proof
- - dust-free
- - protected against moisture
- - not under direct radiation of sunlight
- - at a sufficient distance from heating sources

Complete the installation before switching the power on or in the case of installations or addition of assembly components! Avoid short circuits!

Switch off the Headend at the wall socket and remove the mains plug.



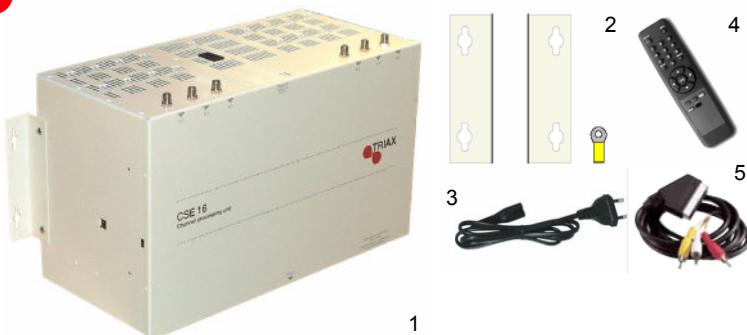
Make sure that the power cable is not damaged, as this will increase the risk of electric shock or fire.

Electrical Installations must comply to the latest version of the BS 7671 Electrical Installations Regulations

Opening of the Headend must only be carried out by qualified or competent persons



In case of condensation, switch Headend off at the wall socket, remove plug and wait until the unit is completely dry before it is turned on again.

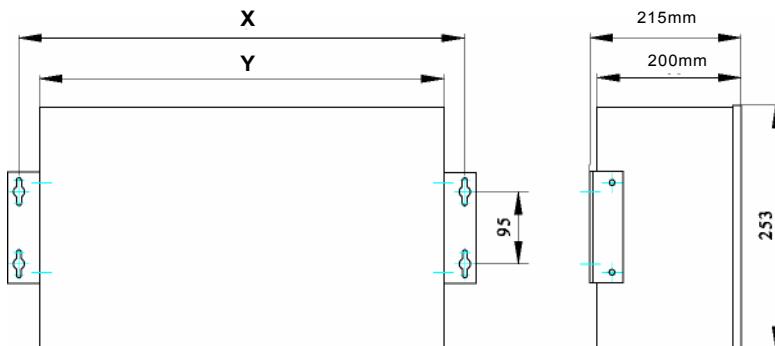


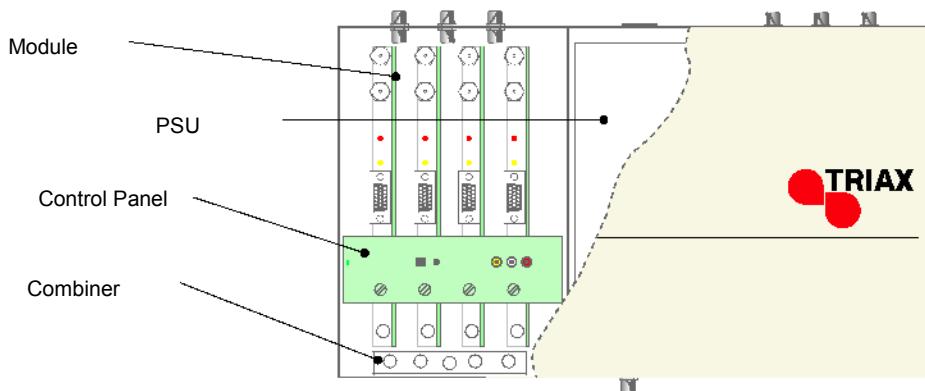
Contents

- 1) Headend
- 2) Brackets for wall mounting+ screws, earth crimp.
- 3) Mains Cable
- 4) Remote control incl. batteries
- 5) AV cable (monitor) SCART to Phono

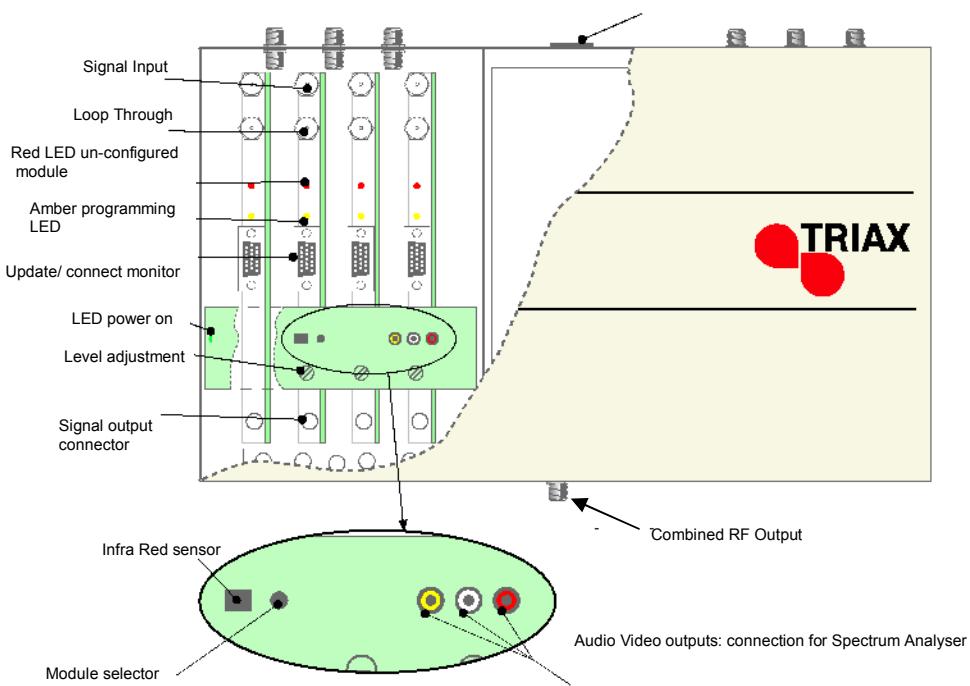
Dimensions

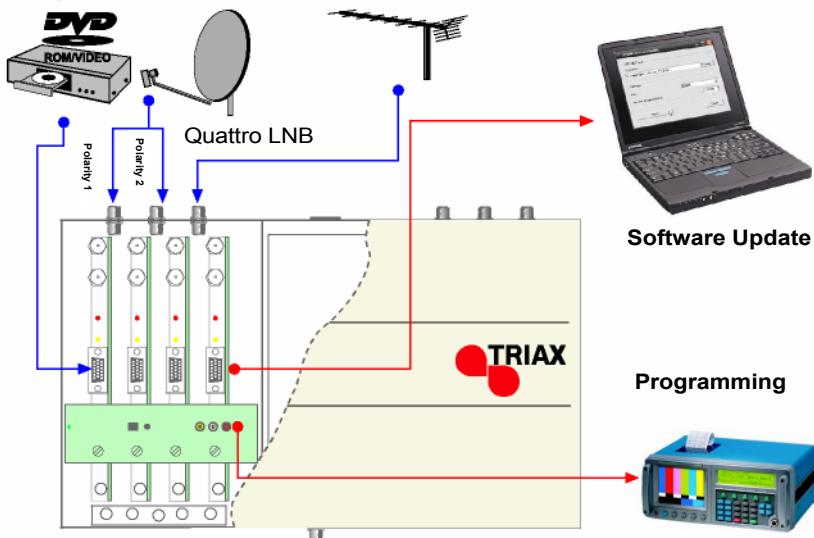
	X	Y
CSE06	338mm	300mm
CSE08	467mm	428mm
CSE12	604mm	567mm





Headend Connections





Programming

Factory Reset: English

LNB Power ON 14V (QPSK)

Antenna Power ON (COFDM)

Modulator OFF

Important: Connect only full Headend to PSU.

Programming

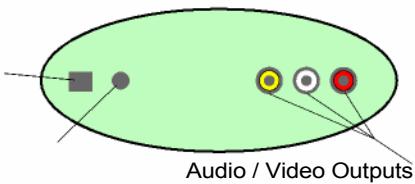


Programming only possible without cover!

- Connect the signal sources with the signal inputs of the Headend
- Channel Plan information required
- Loop the required number of modules together using the same input polarity
- Connect the monitor using the audio video outputs on the front panel

Infrared Sensor

Module selector



Program Flow

Press and hold down the module select button for 3 seconds. The 1st module will be activated and an amber LED will be illuminated.

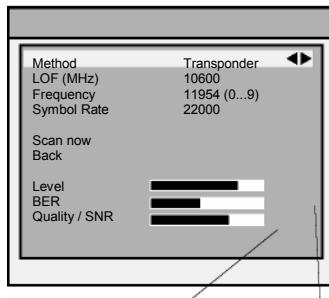
Press the "Menu" button on the remote control, this takes you to the "Main Menu", follow programming flowchart.

Important: for each module, you have to allow a 2 channel spacing (DSB). Set output channel before exiting the menu.

Once exited, press the module select button this will step across to the next module. Repeat steps as above.

When you have completed programming the last module in the Headend, pressing the "Module Select" button again automatically exits the programming mode. To enter this again you will need to hold down the "Module Select" button for approximately 3 seconds.

Screen Layout



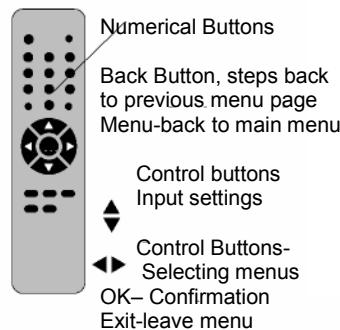
Menu item

Input box (0...9)
Input of numeric's

Selecting box

Information box

Remote Control

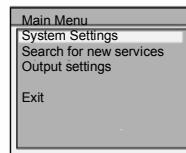


Quality

15-16 dB readings are excellent

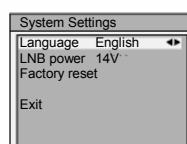
Do not fall below 8dB

BER- 10^{-4} good, do not fall below 10^{-3}

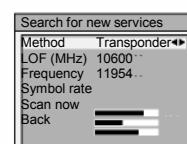


Main Menu

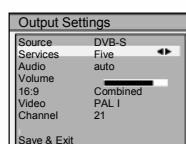
System Settings



Program Settings



Output Settings



QPSK—PAL

The image shows a menu titled "System settings" with the following options:

- Language: English (with a right-pointing arrow icon)
- LNB power: 14V
- Factory reset
- Save and Exit

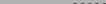
Language	◀ ▶	German / English France / Spanish
LNB power	◀ ▶	14V / OFF
factory reset		OK
Leave & Exit		OK

COFDM—PAL

The screenshot shows a menu titled "System settings" with a list of options: "Language" (set to "English"), "ANT power", "Factory reset", and "Save and Exit". A small navigation icon is visible in the top right corner.

Language	◀ ▶	German / English France / Spanish
ANT power	Out	-
Factory reset	OK	
Save & Exit	OK	

Search for new Services

Search for new services	
Method	Transponder 
LOF (MHz)	9750
Frequency (MHz)	10773
Symbol Rate	22000
Scan now	
Back	
Level	
BER	
Quality / SNR	

Method	◀ ▶	Transponder
LOF (MHz)	◀ ▶	09750 / 10600
Frequency	(0...9)	
Symbol Rate	◀ ▶	22000 / 27500
Scan	OK	
Scan	OK	

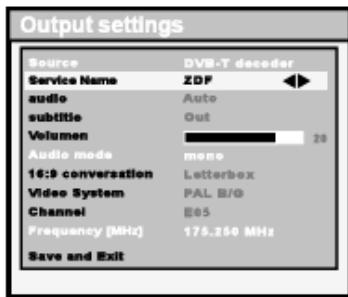
A screenshot of a mobile application interface titled 'Search for new services'. The screen displays several configuration options: 'Method' (set to 'Channel'), 'Frequency (MHz)' (set to '634'), and 'Bandwidth (MHz)' (set to '8'). Below these settings are two buttons: 'Scan now' and 'Back'. At the bottom of the screen, there are two progress bars: one for 'Level' (approximately 75% complete) and one for 'BER' (approximately 25% complete). A small black arrow icon is located in the top right corner of the screen area.

Method	◀ ▶	Channel / all
Frequency	(0...9)	
Bandwidth	◀ ▶	7 / 8 MHz
Scan	OK	
Scan	OK	

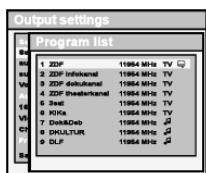


Note: wait for signal level to be displayed before scanning

Output Settings



Source	DVB-decoder Master / AV-IN DVB-decoder Slave / AV-IN	
Service Name	◀▶	Switch to programme list
Audio	◀▶	Auto / Select audio channel (dependent on selected program)
Subtitle	◀▶	Auto / Select subtitle channel (dependent on selected program)
Volume	◀▶	Bar display
Audio Mode	n/a	Mono
16:9	◀▶	Normal / Letterbox / combined / Pan Scan
Video System	◀▶	PAL I / PAL B/G (default) / SECAM L
Channel	◀▶	Select output channel
Frequency	[0...9]	Input only possible on list
Save & Exit	OK	(close menu)
Save & Exit	OK	Switches modulator "ON"



Selection of a program:
 ◀▶ select previous/next program
 ▲▼ select previous/next page
 OK confirm selection

TV television transmitter
 ☎ radio transmitter
 ☰ with subtitle
 ☰ encoded



Module changing

Attention! Switch Headend off at the wall socket and remove the plug.

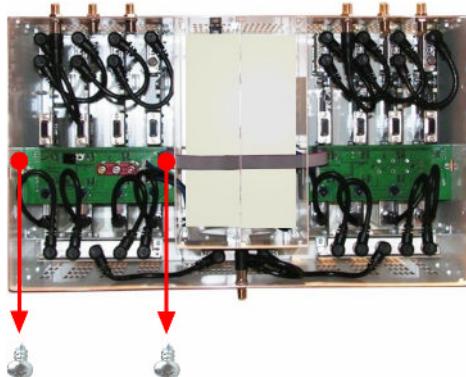
- 1) Unscrew the four cross head screws from the lid and remove.



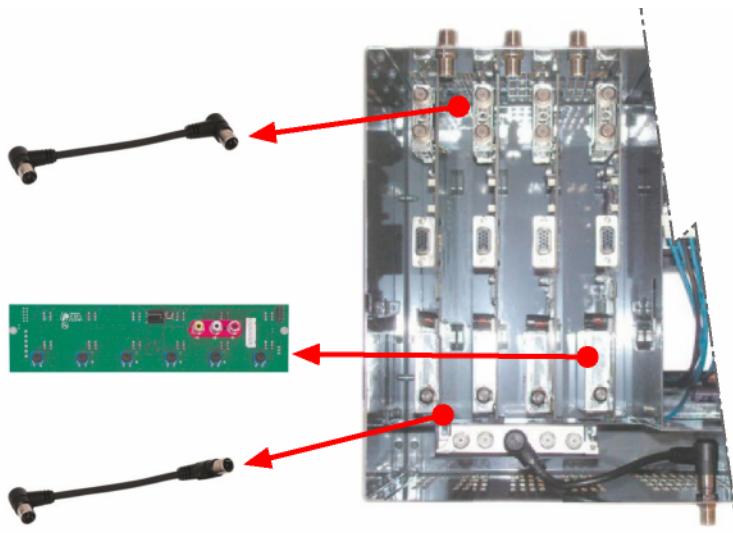
- 2) Unplug the Data & DC cables from the Control panel PCB



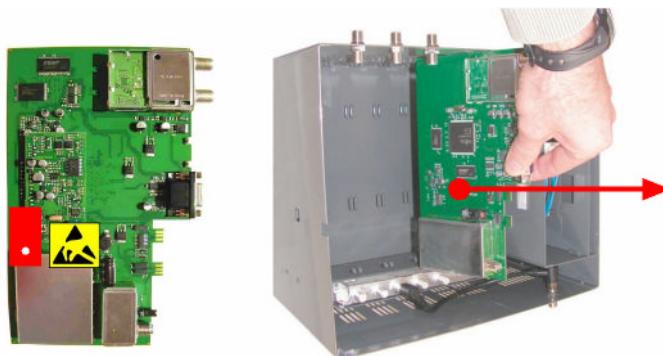
- 3) Unscrew the two cross head screws in the Control Panel PCB and remove



4) Remove the connection cables between the modules
Remove the connection cables between the modules and combiner



5) Change the modules



6) Reassemble in reverse order

Do Not Connect the mains power connector until the Headend is fully assembled



Type	CSE0601	CSE0801	CSE1201
Part Number.	324949	324950	324951
Input	DVB-T PAL	DVB-T PAL	DVB-T PAL
Frequency (MHz)	470-862	470-862	470-862
TV Standard		PAL I, B/G, DK, Secam L	
Audio Mode		Single Mono Modulator	
Channels (fully agile)	21-68	21-68	21-68
Modulator Type	DSB	DSB	DSB
Output Level (dB μ V)	85	85	85
Level Adjustment	0-15	0-15	0-15
Number of Channels	6	8	12
Output Loop Through	No	No	No
Line Power	12VDC	12VDC	12VDC
Connections	F-Type (f)	F-Type (f)	F-Type (f)
Input Voltage		AC90-264 / 50/60Hz	
Dimensions mm	253 (H) 300 (W) 200 (D)	253 (H) 428 (W) 200 (D)	253 (H) 567 (W) 200 (D)
Weight	5.5 Kg	8.8 Kg	11.5 Kg
Type	CSE0611	CSE0811	CSE1211
Part Number.	324952	324953	324954
Input	DVB-S PAL	DVB-S PAL	DVB-S PAL
Frequency (MHz)	950-2150	950-2150	950-2150
TV Standard		PAL I, B/G, DK, Secam L	
Audio Mode		Single Mono Modulator	
Channels (fully agile)	21-68	21-68	21-68
Modulator Type	DSB	DSB	DSB
Output Level (dB μ V)	85	85	85
Level Adjustment	0-15	0-15	0-15
Number of Channels	6	8	12
Output Loop Through	No	No	No
Line Power	0/14V DC	0/14V DC	0/14V DC
Connections	F-Type (f)	F-Type (f)	F-Type (f)
		Quattro LNB Required	
Input Voltage		AC90-264 / 50/60Hz	
Dimensions mm	253 (H) 300 (W) 200 (D)	253 (H) 428 (W) 200 (D)	253 (H) 567 (W) 200 (D)
Weight	5.5 Kg	8.8 Kg	11.5 Kg